UTILITY PATENT APPLICATION TRANSMITTAL (Small Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No. 51764/2

Total Pages in this Submission

TO THE COMMISSIONER FOR PATENTS

Mail Stop Patent Application P.O. Box 1450 Alexandria, VA 22313-1450

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent ap invention entitled:	plication for an
INFINITE IMPULSE RESPONSE MULTIPLIERLESS DIGITAL FILTER ARCHITECTURE	
and invented by:	· ,
Tamal Bose, Alan W. Shaw, Chirag RamGopal Sharma, and Ratchaneekorn Thamvichai	
If a CONTINUATION APPLICATION, check appropriate box and supply the requisite information:	
☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.:	
Which is a:	
☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.:	
Which is a:	
☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.:	e Salah dan salah salah
Enclosed are: Application Elements	
Filing fee as calculated and transmitted as described below	
2. Specification having twenty (20) pages and including the following:	
a. ⊠ Descriptive Title of the Invention	
b. Cross References to Related Applications (if applicable)	
c. Statement Regarding Federally-sponsored Research/Development (if applicable)	
d. Reference to Sequence Listing, a Table, or a Computer Program Listing Appendix	
e. 🗵 Background of the Invention	•
f. Brief Summary of the Invention	•
g 🗵 Brief Description of the Drawings (if filed)	
h. 🗵 Detailed Description	
j. 🛛 Abstract of the Disclosure	

UTILITY PATENT APPLICATION TRANSMITTAL (Small Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No. 51764/2

Total Pages in this Submission

		Application cienterits (Continued)
3.	X	Drawing(s) (when necessary as prescribed by 35 USC 113)
	a.	
٠.	b.	☐ Informal Number of Sheets
4.	×	Oath or Declaration
	a.	Newly executed (original or copy) □ Unexecuted
	b.	☐ Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional application only)
,	C.	☐ With Power of Attorney ☐ Without Power of Attorney
	d.	DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. 1.63(d)(2) and 1.33(b).
5.		Incorporation By Reference (usable if Box 4b is checked) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
6.		CD ROM or CD-R in duplicate, large table or Computer Program (Appendix)
7. 8.		Application Data Sheet (See 37 CFR 1.76) Nucleotide and/or Amino Acid Sequence Submission (if applicable, all must be included)
	a.	☐ Computer Readable Form (CFR)
	b.	☐ Specification Sequence Listing on:
	٠.	i. CD-ROM or CD-R (2 copies); or
		ii. 🗋 Paper
	C.	☐ Statement(s) Verifying Identical Paper and Computer Readable Copy
		Accompanying Application Parts
9.	X	Assignment Papers (cover sheet & document(s))
10,		37 CFR 3.73(B) Statement (when there is an assignee)
11.		English Translation Document (if applicable)
12.		Information Disclosure Statement/PTO-1449 Copies of IDS Citations
13.		Preliminary Amendment
14.	\boxtimes	Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15.		Certified Copy of Priority Document(s) (if foreign priority is claimed)
16.	X	Certificate of Mailing
		☐ First Class ☒ Express Mail (Specify Label No.): EU976904513US

UTILITY PATENT APPLICATION TRANSMITTAL (Small Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No. 51764/2

Total Pages in this Submission

		Accompanying Application Parts (Continued)
17.	X	Applicant claims small entity status. See 37 CFR 1.27.
		☐ (Optional) Small Entity Statement(s) - Specify Number of Statements Submitted:
18.	×	Additional Enclosures (please identify below):
-		PTO-2038 Credit Card Payment Form in the amount of \$574.00 Postcard
•		
19.		Request That Application Not Be Published Pursuant To 35 U.S.C. 122(b)(2) Pursuant to 35 U.S.C. 122(b)(2), Applicant hereby requests that this patent application not be published pursuant to 35 U.S.C. 122(b)(1). Applicant hereby certifies that the invention disclosed in this application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing of the application.
		Warning
		An applicant who makes a request not to publish, but who subsequently files in a foreign country or under a multilateral international agreement specified in 35 U.S.C. 122(b)(2)(B)(i), must notify the Director of such filing not later than 45 days after the date of the filing of such foreign or international application. A failure of the applicant to provide such notice within the prescribed period shall result in the application being regarded as abandoned, unless it is shown to the satisfaction of the Director that the delay in submitting the notice was unintentional.

UTILITY PATENT APPLICATION TRANSMITTAL (Small Entity) (Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No. 51764/2

Total Pages in this Submission

Fee Calculation and Transmittal

		CLAIMS A	S FILED			
For	#Filed	#Allowed	#Extra	Rate		Fee
Total Claims	33	- 20 =	13	x \$9.00		\$117.00
Indep. Claims	4	- 3 =	1	× \$42.00		\$42.00
Multiple Dependent Cl	aims (check if	applicable) 〔]			\$0.00
					BASIC FEE	\$375.00
OTHER FEE (specify	purpose)	As	signment Reco	ordation Fee		\$40.00
				TOTA	L FILING FEE	\$574.00
Credit any	ount of \$57 eby authorized to v. e amount of overpayment.	74.00 to coordinate to coordin	over the filing edit Deposit A s filing fee.	fee is enclosed. ccount No. R. 1.16 and 1.17.	502375	
☐ Charge the	e issue fee set in o 37 C.F.R. 1.31	n 37 C.F.R. 1.18	Joh Rei STO On 201 Sal	n R. Thompson gistration No. 40,84 DEL RIVES LLP e Utah Center South Main Street t Lake City, UT 84	Signature 42 et, Suite 1100	
cc:			Pho	one: (801) 578-699	4; Facsimile: (8	01) 578-5999

ERTIFICATE OF M plicant(s): Tamal Bose	51764/2		
Serial No.	Filing Date	Examiner	Group Art Unit
Not yet assigned	July 8, 2003	Not yet assigned	Not yet assigned

I hereby certify that the following correspondence:

Transmittal Form (4 pgs.); Patent Application (20 pgs.); Drawings (3 sheets); Combined Declaration and Power of Attorney for Patent Application (6 pgs.); Recordation Form Cover Sheet and Assignment (6 pgs.); PTO-2038 Credit Card Payment Form in the amount of \$574.00; and postcard.

(Identify type of correspondence)

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

July 8, 2003

John R. Thompson

(Typed or Printed Name of Person Mailing Correspondence)

Signature of Person Mailing Correspondence)

EU976904513US

("Express Mail" Mailing Label Number)

32072

Note: Each paper must have its own certificate of mailing.